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Ala Ala Pro Gly Ala Arg Trp Gly Gln Gln Ala His Ser Pro Leu Gly 50 55 60

Thr Ala Ala Asp Gly His Glu Val Phe Tyr Gly Ile Met Phe Asp Ala 65 70 75 80

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Arg Glu Thr Pro Thr Leu Thr His Glu Thr Phe Lys Ala Val Lys Pro
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Ile Val Leu Asp Ala Gly Ser Ser Arg Thr Thr Val Tyr Val Tyr Gln
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Phe Glu Glu Cys Met Gln Lys Val Lys Gly Gln Val Pro Ser His Leu 115 120 125

His Gly Ser Thr Pro Ile His Leu Gly Ala Thr Ala Gly Met Arg Leu 130 135. 140

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Gln Ser Tyr Phe Lys Ser Gln Pro Phe Asp Phe Arg Gly Ala Gln Ile 165 170 175

Ile Ser Gly Gln Glu Glu Gly Val Tyr Gly Trp Ile Thr Ala Asn Tyr 180 185 190

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Thr Leu Tyr Gly Ile Met Phe Asp Ala Gly Ser Thr Gly Thr Arg Ile
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528

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gag Glu	gag Glu 320	gtc Val	cag Gln	aga Arg	ggt Gly	tcc Ser 325	ttc Phe	tat Tyr	gct Ala	ttc Phe	tct Ser 330	tac Tyr	tat Tyr	tat Tyr	gac Asp	1248

Arg 335	Ala	Val	gac Asp	Thr	gac Asp 340	Met	Ile	gat Asp	Tyr	gaa Glu 345	aag Lys	Gly	ggt Gly	att Ile	tta Leu 350	1296
aaa Lys	gtt Val	gaa Glu	gat Asp	ttt Phe 355	gaa Glu	aga Arg	aaa Lys	gcc Ala	agg Arg 360	gaa Glu	gtg Val	tgt Cys	gat Asp	aac Asn 365	ttg Leu	1344
gaa Glu	aac Asn	ttc Phe	acc Thr 370	tca Ser	ggc Gly	agt Ser	cct Pro	ttc Phe 375	ctg Leu	tgc Cys	atg Met	gat Asp	ctc Leu 380	agc Ser	tac Tyr	1392
atc Ile	aca Thr	gcc Ala 385	ctg Leu	tta Leu	aag Lys	gat Asp	ggc Gly 390	ttt Phe	ggc Gly	ttt Phe	gca Ala	gac Asp 395	agc Ser	aca Thr	gtc Val	1440
tta Leu	cag Gln 400	ctc Leu	aca Thr	aag Lys	aaa Lys	gtg Val 405	aac Asn	aac Asn	ata Ile	gag Glu	acg Thr 410	ggc Gly	tgg Trp	gcc Ala	ttg Leu	1488
999 Gly 415	gcc Ala	acc Thr	ttt Phe	cac His	ctg Leu 420	ttg Leu	cag Gln	tct Ser	ctg Leu	ggc Gly 425	atc Ile	tcc Ser	cat His			1530
tgag	gcca	.cg t	actt	cctt	g ga	gaco	tgca	ttt	gcca	aca	cctt	ttta	ag g	gggag	gagag	1590
agca	ctta	gt t	tctg	aact	a gt	ctgg	gaca	tcc	tgga	ctt	gago	ctag	ag a	attea	ggttt	1650
aatt	aatt	tt a	caca	tcta	a tg	tgaa	ctgo	tgc	ctaa	cca	ctca	agag	ta d	cacag	ctggc	1710
acca	gagc	at c	acag	agag	c cc	tgtg	agcc	aaa	aagt	ata	gttt	tgga	ac t	taac	cttgg	1770
agtg	agag	CC C	aggg	acag	g tc	cctg	gaaa	cca	aaga	aaa	atcg	catt	tc a	acco	tttga	1830
gtgc	ctca	tt c	cact	gaat	a tt	taaa	tttt	cct	ctta	aat	ggta	aaçt	ga c	cttat	tgcaa	1890
tccc	aaga	cc c	atca	atat	c ag	tatt	tttt	tcc	tccc	tat	acag	tgcc	ct g	jecca	ccctt	1950
atct	gcac	cc a	cctc	ccct	g aa	aaag	agag	aaa	aaaa	aaa	aaaa	aaaa				1998

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<400> 6

Met Ala Thr Ser Trp Gly Thr Val Phe Phe Met Leu Val Val Ser Cys
1 5 10 15

Val Cys Ser Ala Val Ser His Arg Asn Gln Gln Thr Trp Phe Glu Gly
20 25 30

Ile Phe Leu Ser Ser Met Cys Pro Ile Asn Val Ser Ala Ser Thr Leu 35 40 45

Tyr Gly Ile Met Phe Asp Ala Gly Ser Thr Gly Thr Arg Ile His Val 50 55 60

Tyr Thr Phe Val Gln Lys Met Pro Gly Gln Leu Pro Ile Leu Glu Gly Glu Val Phe Asp Ser Val Lys Pro Gly Leu Ser Ala Phe Val Asp Gln Pro Lys Gln Gly Ala Glu Thr Val Gln Gly Leu Leu Glu Val Ala Lys 105 Asp Ser Ile Pro Arg Ser His Trp Lys Lys Thr Pro Val Val Leu Lys 120 Ala Thr Ala Gly Leu Arg Leu Leu Pro Glu His Lys Ala Lys Ala Leu 135 Leu Phe Glu Val Lys Glu Ile Phe Arg Lys Ser Pro Phe Leu Val Pro Lys Gly Ser Val Ser Ile Met Asp Gly Ser Asp Glu Gly Ile Leu Ala Trp Val Thr Val Asn Phe Leu Thr Gly Gln Leu His Gly His Arg Gln Glu Thr Val Gly Thr Leu Asp Leu Gly Gly Ala Ser Thr Gln Ile Thr Phe Leu Pro Gln Phe Glu Lys Thr Leu Glu Gln Thr Pro Arg Gly Tyr 215 Leu Thr Ser Phe Glu Met Phe Asn Ser Thr Tyr Lys Leu Tyr Thr His 225 235 240 Ser Tyr Leu Gly Phe Gly Leu Lys Ala Ala Arg Leu Ala Thr Leu Gly Ala Leu Glu Thr Glu Gly Thr Asp Gly His Thr Phe Arg Ser Ala Cys 265 Leu Pro Arg Trp Leu Glu Ala Glu Trp Ile Phe Gly Gly Val Lys Tyr Gln Tyr Gly Gly Asn Gln Glu Gly Glu Val Gly Phe Glu Pro Cys Tyr 290 295 Ala Glu Val Leu Arg Val Val Arg Gly Lys Leu His Gln Pro Glu Glu 315 Val Gln Arg Gly Ser Phe Tyr Ala Phe Ser Tyr Tyr Tyr Asp Arg Ala 325 330 Val Asp Thr Asp Met Ile Asp Tyr Glu Lys Gly Gly Ile Leu Lys Val

Glu Asp Phe Glu Arg Lys Ala Arg Glu Val Cys Asp Asn Leu Glu Asn

360

355

Phe	Thr 370		Gly	Ser	Pro	Phe 375	Leu	Cys	Met	Asp	Leu 380		Tyr	Ile	Thr	
Ala 385		Leu	Lys	Asp	Gly 390	Phe	Gly	Phe	Ala	Asp 395	Ser	Thr	Val	Leu	Gln 400	
Leu	Thr	Lys	Lys	Val 405	Asn	Asn	Ile	Glu	Thr 410	Gly	Trp	Ala	Leu	Gly 415	Ala	
Thr	Phe	His	Leu 420	Leu	Gln	Ser	Leu	Gly 425	Ile	Ser	His					
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aag	ggagg	ggc d	ctgaa	aggad	cc to	caca	ıggaç	g tgt	gago	cagc	act	gctt	cag (caaca	aaagcc	180
tca	ggtco	cac a	atctt	ggga	aa ga	iat a M	tg g Met A	gcc a Ala T	ct thr	cc t Ser I	gg g Trp (agg 9	gct g Ala V	gtc (Val 1	tc Phe	231
atg Met 10	ctg Leu	atc Ile	ata Ile	gcc Ala	tgc Cys 15	gtt Val	ggc Gly	agc Ser	act Thr	gtc Val 20	ttc Phe	tac Tyr	aga Arg	gaa Glu	cag Gln 25	279
cag Gln	acc Thr	tgg Trp	ttt Phe	gaa Glu 30	ggt Gly	gtc Val	ttc Phe	ttg Leu	tct Ser 35	tcc Ser	atg Met	tgc Cys	ccc Pro	att Ile 40	aat Asn	327
gtc Val	agt Ser	gcc Ala	ggc Gly 45	acc Thr	ttt Phe	tat Tyr	gga Gly	att Ile 50	atg Met	ttt Phe	gat Asp	gcg Ala	ggc Gly 55	agc Ser	act Thr	375
gga Gly	gct Ala	cgg Arg 60	att Ile	cat His	gtt Val	tac Tyr	act Thr 65	ttt Phe	gtg Val	cag Gln	aaa Lys	aca Thr 70	gca Ala	gga Gly	cag Gln	423
ctc Leu	ccc Pro 75	ttt Phe	ctg Leu	gaa Glu	ggt Gly	gaa Glu 80	att Ile	ttt Phe	gat Asp	tct Ser	gtg Val 85	aag Lys	ccg Pro	gga Gly	ctt Leu	471
tct Ser 90	gct Ala	ttt Phe	gtg Val	gat Asp	cag Gln 95	ccc Pro	aaa Lys	cag Gln	ggt Gly	gct Ala 100	gag Glu	act Thr	gtc Val	cag Gln	gag Glu 105	519

ctc Leu	ttg Leu	gag Glu	gtg Val	gcc Ala 110	aaa Lys	gac Asp	tcg Ser	atc Ile	ccc Pro 115	aga Arg	agc Ser	cac His	tgg Trp	gaa Glu 120	agg Arg	567
	ccg Pro															615
cag Gln	aaa Lys	gcc Ala 140	cag Gln	gct Ala	ctg Leu	ctc Leu	ttg Leu 145	gag Glu	gta Val	gag Glu	gag Glu	atc Ile 150	ttc Phe	aag Lys	aat Asn	663
tca Ser	cct Pro 155	ttc Phe	ctg Leu	gtc Val	cca Pro	gat Asp 160	ggc Gly	agc Ser	gtt Val	agc Ser	atc Ile 165	atg Met	gat Asp	gly ggg	tcc Ser	711
tat Tyr 170	gaa Glu	ggc Gly	ata Ile	cta Leu	gcc Ala 175	tgg Trp	gtt Val	acc Thr	gtg Val	aac Asn 180	ttt Phe	cta Leu	aca Thr	ggt Gly	cag Gln 185	759
ctg Leu	cat His	ggt Gly	cgt Arg	ggc Gly 190	cag Gln	gag Glu	act Thr	gtg Val	999 Gly 195	acc Thr	ctt Leu	gac Asp	ctg Leu	999 Gly 200	ggt Gly	807
gcc Ala	tcc Ser	acc Thr	caa Gln 205	atc Ile	acg Thr	ttt Phe	cta Leu	ccc Pro 210	cag Gln	ttt Phe	gag Glu	aaa Lys	acc Thr 215	ctg Leu	gaa Glu	855
	aca Thr															903
ttt Phe	aag Lys 235	ctc Leu	tat Tyr	aca Thr	cat His	agt Ser 240	tac Tyr	ttg Leu	gga Gly	ttt Phe	gga Gly 245	ctg Leu	aaa Lys	gct Ala	gca Ala	951
aga Arg 250	ctg Leu	gca Ala	act Thr	ctg Leu	gga Gly 255	gcc Ala	ctg Leu	gaa Glu	gca Ala	aaa Lys 260	gly	act Thr	gat Asp	gga Gly	cat His 265	999
acg Thr	ttt Phe	cga Arg	agt Ser	gcc Ala 270	tgt Cys	tta Leu	cca Pro	aga Arg	tgg Trp 275	ttg Leu	gaa Glu	gca Ala	gag Glu	tgg Trp 280	atc Ile	1047
ttt Phe	Gly ggg	ggt Gly	gtg Val 285	aaa Lys	tac Tyr	cag Gln	tat Tyr	ggt Gly 290	ggt Gly	aac Asn	caa Gln	gaa Glu	999 Gly 295	gag Glu	atg Met	1095
ggc Gly	ttt Phe	gaa Glu 300	ccc Pro	tgc Cys	tat Tyr	gcg Ala	gaa Glu 305	gtg Val	ctg Leu	agg Arg	gta Val	gta Val 310	cag Gln	Gly 999	aaa Lys	1143
ctt Leu	cac His 315	cag Gln	cca Pro	gaa Glu	gaa Glu	gtc Val 320	cga Arg	gga Gly	agc Ser	gcc Ala	ttc Phe 325	tac Tyr	gct Ala	ttc Phe	tct Ser	1191

tac tac tac gat cga gcc gct gac aca cac ttg atc gat tat gaa aag 1239 Tyr Tyr Tyr Asp Arg Ala Ala Asp Thr His Leu Ile Asp Tyr Glu Lys 330 335 340 345	ı
ggc ggg gtt tta aaa gtt gaa gat ttt gaa aga aaa gcc aga gaa gtg 1287 Gly Gly Val Leu Lys Val Glu Asp Phe Glu Arg Lys Ala Arg Glu Val 350 355 360	,
tgt gac aac ttg ggg agc ttc tcc tcg ggc agt cct ttc ctc tgc atg 1335 Cys Asp Asn Leu Gly Ser Phe Ser Ser Gly Ser Pro Phe Leu Cys Met 365 370 375	i
gac ctc act tac atc aca gcc ctg ttg aaa gat ggt ttg ggc ttt gcc 1383 Asp Leu Thr Tyr Ile Thr Ala Leu Leu Lys Asp Gly Leu Gly Phe Ala 380 385 390	i
gaa cgg cac cct ctt aca gct cac aaa gaa agt gaa caa cat aga gac 1431 Glu Arg His Pro Leu Thr Ala His Lys Glu Ser Glu Gln His Arg Asp 395 400 405	•
tgg ttg ggc ctt ggg ggc cac ctt tca cct gct cca gtc tct ggg cat 1479 Trp Leu Gly Leu Gly His Leu Ser Pro Ala Pro Val Ser Gly His 410 415 420 425	}
cac cag ctg agg cca agc tcc acc tct gaa gcc tgc att tct gaa cca 1527 His Gln Leu Arg Pro Ser Ser Thr Ser Glu Ala Cys Ile Ser Glu Pro 430 435 440	′
gtt ttc tca cag gaa ggc gtg gac tca gag aca ttt tct gac ctc tct 1575 Val Phe Ser Gln Glu Gly Val Asp Ser Glu Thr Phe Ser Asp Leu Ser 445 450 455	;
gga aaa gcc tgg ccc gaa acc cgt taactggttt tataaggagg gaggggtttt 1629 Gly Lys Ala Trp Pro Glu Thr Arg 460 465	;
tagatgagtc ttgctcttga gcctagtgat ttgggcttca atgatttgca catctaatgt 1689	•
gaatagctcc taaccacttg gtgggtgcat ggctggcacc agactgtaaa tcttttggga 1749	•
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ccatcaatgc tgttaatttt tttcttccta cccttattac attccctacc ctaaaagcct 1989)
gggggaaata cctggttttg cttcccatct ataattgaga aagagggggg aaaagatact 2049	7
gtattagaat ttgtgtgatc ctgtggcaca atagatcaac caacccattt aaagcttaaa 2109	€
aaaaaaaaa 2119	€

<210> 8 <211> 465 <212> PRT

<213> Mus musculus

<400> 8

Met Ala Thr Ser Trp Gly Ala Val Phe Met Leu Ile Ile Ala Cys Val 1 5 10 15

Gly Ser Thr Val Phe Tyr Arg Glu Gln Gln Thr Trp Phe Glu Gly Val 20 25 30

Phe Leu Ser Ser Met Cys Pro Ile Asn Val Ser Ala Gly Thr Phe Tyr 35 40 45

Gly Ile Met Phe Asp Ala Gly Ser Thr Gly Ala Arg Ile His Val Tyr
50 60

Thr Phe Val Gln Lys Thr Ala Gly Gln Leu Pro Phe Leu Glu Gly Glu 65 70 75 80

Ile Phe Asp Ser Val Lys Pro Gly Leu Ser Ala Phe Val Asp Gln Pro 85 90 95

Lys Gln Gly Ala Glu Thr Val Gln Glu Leu Leu Glu Val Ala Lys Asp 100 105 110

Ser Ile Pro Arg Ser His Trp Glu Arg Thr Pro Val Val Leu Lys Ala 115 120 125

Thr Ala Gly Leu Arg Leu Leu Pro Glu Gln Lys Ala Gln Ala Leu Leu 130 135 140

Leu Glu Val Glu Glu Ile Phe Lys Asn Ser Pro Phe Leu Val Pro Asp 145 150 155 160

Gly Ser Val Ser Ile Met Asp Gly Ser Tyr Glu Gly Ile Leu Ala Trp 165 170 . 175

Val Thr Val Asn Phe Leu Thr Gly Gln Leu His Gly Arg Gly Gln Glu 180 185 190

Thr Val Gly Thr Leu Asp Leu Gly Gly Ala Ser Thr Gln Ile Thr Phe 195 200 205

Leu Pro Gln Phe Glu Lys Thr Leu Glu Gln Thr Pro Arg Gly Tyr Leu 210 215 220

Thr Ser Phe Glu Met Phe Asn Ser Thr Phe Lys Leu Tyr Thr His Ser 225 230 235 240

Tyr Leu Gly Phe Gly Leu Lys Ala Ala Arg Leu Ala Thr Leu Gly Ala
245 250 255

Leu Glu Ala Lys Gly Thr Asp Gly His Thr Phe Arg Ser Ala Cys Leu 260 265 270

Pro Arg Trp Leu Glu Ala Glu Trp Ile Phe Gly Gly Val Lys Tyr Gln
275 280 285

Tyr Gly Gly Asn Gln Glu Gly Glu Met Gly Phe Glu Pro Cys Tyr Ala 290 295 300

Glu Val Leu Arg Val Val Gln Gly Lys Leu His Gln Pro Glu Glu Val 305 310 315 320

Arg Gly Ser Ala Phe Tyr Ala Phe Ser Tyr Tyr Tyr Asp Arg Ala Ala 325 330 335

Asp Thr His Leu Ile Asp Tyr Glu Lys Gly Gly Val Leu Lys Val Glu
340 345 350

Asp Phe Glu Arg Lys Ala Arg Glu Val Cys Asp Asn Leu Gly Ser Phe 355 360 365

Ser Ser Gly Ser Pro Phe Leu Cys Met Asp Leu Thr Tyr Ile Thr Ala 370 375 380

Leu Leu Lys Asp Gly Leu Gly Phe Ala Glu Arg His Pro Leu Thr Ala 385 390 395 400

His Lys Glu Ser Glu Gln His Arg Asp Trp Leu Gly Leu Gly Gly His
405 410 415

Leu Ser Pro Ala Pro Val Ser Gly His His Gln Leu Arg Pro Ser Ser 420 425 430

Thr Ser Glu Ala Cys Ile Ser Glu Pro Val Phe Ser Gln Glu Gly Val 435 440 445

Asp Ser Glu Thr Phe Ser Asp Leu Ser Gly Lys Ala Trp Pro Glu Thr 450 455 460

Arg 465

<210> 9

<211> 428

<212> PRT

<213> Homo sapiens

<400> 9

Met Ala Thr Ser Trp Gly Thr Val Phe Phe Met Leu Val Val Ser Cys
1 5 10 15

Val Cys Ser Ala Val Ser His Arg Asn Gln Gln Thr Trp Phe Glu Gly
20 25 30

Ile Phe Leu Ser Ser Met Cys Pro Ile Asn Val Ser Ala Ser Thr Leu
35 40 45

Tyr Gly Ile Met Phe Asp Ala Gly Ser Thr Gly Thr Arg Ile His Val
50 60

Tyr Thr Phe Val Gln Lys Met Pro Gly Gln Leu Pro Ile Leu Glu Gly 65 70 75 80

- Glu Val Phe Asp Ser Val Lys Pro Gly Leu Ser Ala Phe Val Asp Gln 85 90 95
- Pro Lys Gln Gly Ala Glu Thr Val Gln Gly Leu Leu Glu Val Ala Lys
 100 105 110
- Asp Ser Ile Pro Arg Ser His Trp Lys Lys Thr Pro Val Val Leu Lys
 115 120 125
- Ala Thr Ala Gly Leu Arg Leu Leu Pro Glu His Lys Ala Lys Ala Leu 130 135 140
- Leu Phe Glu Val Lys Glu Ile Phe Arg Lys Ser Pro Phe Leu Val Pro 145 150 155 160
- Lys Gly Ser Val Ser Ile Met Asp Gly Ser Asp Glu Gly Ile Leu Ala 165 170 175
- Trp Val Thr Val Asn Phe Leu Thr Gly Gln Leu His Gly His Arg Gln
 180 185 190
- Glu Thr Val Gly Thr Leu Asp Leu Gly Gly Ala Ser Thr Gln Ile Thr 195 200 205
- Phe Leu Pro Gln Phe Glu Lys Thr Leu Glu Gln Thr Pro Arg Gly Tyr 210 215 220
- Leu Thr Ser Phe Glu Met Phe Asn Ser Thr Tyr Lys Leu Tyr Thr His 225 230 235 240
- Ser Tyr Leu Gly Phe Gly Leu Lys Ala Ala Arg Leu Ala Thr Leu Gly 245 250 255
- Ala Leu Glu Thr Glu Gly Thr Asp Gly His Thr Phe Arg Ser Ala Cys 260 265 270
- Leu Pro Arg Trp Leu Glu Ala Glu Trp Ile Phe Gly Gly Val Lys Tyr 275 280 285
- Gln Tyr Gly Gly Asn Gln Glu Gly Glu Val Gly Phe Glu Pro Cys Tyr 290 295 300
- Ala Glu Val Leu Arg Val Val Arg Gly Lys Leu His Gln Pro Glu Glu 305 310 315 320
- Val Gln Arg Gly Ser Phe Tyr Ala Phe Ser Tyr Tyr Tyr Asp Arg Ala 325 330 335
- Val Asp Thr Asp Met Ile Asp Tyr Glu Lys Gly Gly Ile Leu Lys Val 340 345 350
- Glu Asp Phe Glu Arg Lys Ala Arg Glu Val Cys Asp Asn Leu Glu Asn 355 360 365
- Phe Thr Ser Gly Ser Pro Phe Leu Cys Met Asp Leu Ser Tyr Ile Thr 370 375 380

Ala Leu Leu Lys Asp Gly Phe Gly Phe Ala Asp Ser Thr Val Leu Gln 385 390 395 400

Leu Thr Lys Lys Val Asn Asn Ile Glu Thr Gly Trp Ala Leu Gly Ala 405 410 415

Thr Phe His Leu Leu Gln Ser Leu Gly Ile Ser His
420
425

<210> 10

<211> 455

<212> PRT

<213> P. sativum

<400> 10

Met Glu Leu Leu Ile Lys Leu Ile Thr Phe Leu Leu Phe Ser Met Pro 1 5 10 15

Ala Ile Thr Ser Ser Gln Tyr Leu Gly Asn Asn Leu Leu Thr Ser Arg
20 25 30

Lys Ile Phe Leu Lys Gln Glu Glu Ile Ser Ser Tyr Ala Val Phe
35 40 45

Asp Ala Gly Ser Thr Gly Ser Arg Ile His Val Tyr His Phe Asn Gln 50 55 60

Asn Leu Asp Leu Leu His Ile Gly Lys Gly Val Glu Tyr Tyr Asn Lys
65 70 75 80

Ile Thr Pro Gly Leu Ser Ser Tyr Ala Asn Asn Pro Glu Gln Ala Ala 85 90 95

Lys Ser Leu Ile Pro Leu Leu Glu Gln Ala Glu Asp Val Val Pro Asp 100 105 110

Asp Leu Gln Pro Lys Thr Pro Val Arg Leu Gly Ala Thr Ala Gly Leu 115 120 125

Arg Leu Leu Asn Gly Asp Ala Ser Glu Lys Ile Leu Gln Ser Val Arg 130 135 140

Asp Met Leu Ser Asn Arg Ser Thr Phe Asn Val Gln Pro Asp Ala Val
145 150 155 160

Ser Ile Ile Asp Gly Thr Gln Glu Gly Ser Tyr Leu Trp Val Thr Val 165 170 175

Asn Tyr Ala Leu Gly Asn Leu Gly Lys Lys Tyr Thr Lys Thr Val Gly
180 185 190

Val Ile Asp Leu Gly Gly Ser Val Gln Met Ala Tyr Ala Val Ser 195 200 205

Lys Lys Thr Ala Lys Asn Ala Pro Lys Val Ala Asp Gly Asp Asp Pro 210 215 220

Tyr Ile Lys Lys Val Val Leu Lys Gly Ile Pro Tyr Asp Leu Tyr Val 225 230 235 240

His Ser Tyr Leu His Phe Gly Arg Glu Ala Ser Arg Ala Glu Ile Leu 245 250 255

Lys Leu Thr Pro Arg Ser Pro Asn Pro Cys Leu Leu Ala Gly Phe Asn 260 265 270

Gly Ile Tyr Thr Tyr Ser Gly Glu Glu Phe Lys Ala Thr Ala Tyr Thr 275 280 285

Ser Gly Ala Asn Phe Asn Lys Cys Lys Asn Thr Ile Arg Lys Ala Leu 290 295 300

Lys Leu Asn Tyr Pro Cys Pro Tyr Gln Asn Cys Thr Phe Gly Gly Ile 305 310 315 320

Trp Asn Gly Gly Gly Asn Gly Gln Lys Asn Leu Phe Ala Ser Ser 325 330 335

Ser Phe Phe Tyr Leu Pro Glu Asp Thr Gly Met Val Asp Ala Ser Thr 340 345 350

Pro Asn Phe Ile Leu Arg Pro Val Asp Ile Glu Thr Lys Ala Lys Glu 355 360 365

Ala Cys Ala Leu Asn Phe Glu Asp Ala Lys Ser Thr Tyr Pro Phe Leu 370 375 380

Asp Lys Lys Asn Val Ala Ser Tyr Val Cys Met Asp Leu Ile Tyr Gln 385 390 395 400

Tyr Val Leu Leu Val Asp Gly Phe Gly Leu Asp Pro Leu Gln Lys Ile
405 410 415

Thr Ser Gly Lys Glu Ile Glu Tyr Gln Asp Ala Ile Val Glu Ala Ala 420 425 430

Trp Pro Leu Gly Asn Ala Val Glu Ala Ile Ser Ala Leu Pro Lys Phe 435 440 445

Glu Arg Leu Met Tyr Phe Val 450 455

<210> 11

<211> 454

<212> PRT

<213> Solanum tuberosum

<400> 11

Met Leu Asn Gln Asn Ser His Phe Ile Phe Ile Leu Ala Ile Phe 1 5 10 15

Leu Val Leu Pro Leu Ser Leu Leu Ser Lys Asn Val Asn Ala Gln Ile 20 25 30

- Pro Leu Arg Arg His Leu Leu Ser His Glu Ser Glu His Tyr Ala Val 35 40 45
- Ile Phe Asp Ala Gly Ser Thr Gly Ser Arg Val His Val Phe Arg Phe 50 55 60
- Asp Glu Lys Leu Gly Leu Leu Pro Ile Gly Asn Asn Ile Glu Tyr Phe
 65 70 75 80
- Met Ala Thr Glu Pro Gly Leu Ser Ser Tyr Ala Glu Asp Pro Lys Ala 85 90 95
- Ala Ala Asn Ser Leu Glu Pro Leu Leu Asp Gly Ala Glu Gly Val Val 100 105 110
- Pro Gln Glu Leu Gln Ser Glu Thr Pro Leu Glu Leu Gly Ala Thr Ala 115 120 125
- Gly Leu Arg Met Leu Lys Gly Asp Ala Ala Glu Lys Ile Leu Gln Ala 130 135 140
- Val Arg Asn Leu Val Lys Asn Gln Ser Thr Phe His Ser Lys Asp Gln 145 150 155 160
- Trp Val Thr Ile Leu Asp Gly Thr Gln Glu Gly Ser Tyr Met Trp Ala 165 170 175
- Ala Ile Asn Tyr Leu Leu Gly Asn Leu Gly Lys Asp Tyr Lys Ser Thr 180 185 190
- Thr Ala Thr Ile Asp Leu Gly Gly Gly Ser Val Gln Met Ala Tyr Ala 195 200 205
- Ile Ser Asn Glu Gln Phe Ala Lys Ala Pro Gln Asn Glu Asp Gly Glu 210 215 220
- Pro Tyr Val Gln Gln Lys His Leu Met Ser Lys Asp Tyr Asn Leu Tyr 225 230 235 240
- Val His Ser Tyr Leu Asn Tyr Gly Gln Leu Ala Gly Arg Ala Glu Ile 245 250 255
- Phe Lys Ala Ser Arg Asn Glu Ser Asn Pro Cys Ala Leu Glu Gly Cys 260 265 270
- Asp Gly Tyr Tyr Ser Tyr Gly Gly Val Asp Tyr Lys Val Lys Ala Pro 275 280 285
- Lys Lys Gly Ser Ser Trp Lys Arg Cys Arg Arg Leu Thr Arg His Ala 290 295 300
- Leu Lys Ile Asn Ala Lys Cys Asn Ile Glu Glu Cys Thr Phe Asn Gly 305 310 315 320
- Val Trp Asn Gly Gly Gly Asp Gly Gln Lys Asn Ile His Ala Ser 325 330 335

Ser Phe Phe Tyr Asp Ile Gly Ala Gln Val Gly Ile Val Asp Thr Lys 340 345 350

Phe Pro Ser Ala Leu Ala Lys Pro Ile Gln Tyr Leu Asn Ala Ala Lys 355 360 365

Val Ala Cys Gln Thr Asn Val Ala Asp Ile Lys Ser Ile Phe Pro Lys 370 375 380

Thr Gln Asp Arg Asn Ile Pro Tyr Leu Cys Met Asp Leu Ile Tyr Glu 385 390 395 400

Tyr Thr Leu Leu Val Asp Gly Phe Gly Leu Asn Pro His Lys Glu Ile
405 410 415

Thr Val Ile His Asp Val Gln Tyr Lys Asn Tyr Leu Val Gly Ala Ala 420 425 430

Trp Pro Leu Gly Cys Ala Ile Asp Leu Val Ser Ser Thr Thr Asn Lys
435
440
445

Ile Arg Val Ala Ser Ser 450

<210> 12

<211> 473

<212> PRT

<213> Saccharomyces cerevisiae

<400> 12

Lys Thr Pro Glu Asp Ile Ser Ile Ile Pro Val Asn Asp Glu Pro Gly
1 5 10 15

Tyr Leu Gln Asp Ser Lys Thr Glu Gln Asn Tyr Pro Glu Leu Ala Asp
20 25 30

Ala Val Lys Ser Gln Thr Ser Gln Thr Cys Ser Glu Glu His Lys Tyr 35 40 45

Val Ile Met Ile Asp Ala Gly Ser Thr Gly Ser Arg Val His Ile Tyr 50 55 60

Lys Phe Asp Val Cys Thr Ser Pro Pro Thr Leu Leu Asp Glu Lys Phe 65 70 75 80

Asp Met Leu Glu Pro Gly Leu Ser Ser Phe Asp Thr Asp Ser Val Gly 85 90 95

Ala Ala Asn Ser Leu Asp Pro Leu Leu Lys Val Ala Met Asn Tyr Val

Pro Ile Lys Ala Arg Ser Cys Thr Pro Val Ala Val Lys Ala Thr Ala 115 120 125

Gly Leu Arg Leu Leu Gly Asp Ala Lys Ser Ser Lys Ile Leu Ser Ala 130 135 140

- Val Arg Asp His Leu Glu Lys Asp Tyr Pro Phe Pro Val Val Glu Gly 145 150 155 160
- Asp Gly Val Ser Ile Met Gly Gly Asp Glu Glu Gly Val Phe Ala Trp 165 170 175
- Ile Thr Thr Asn Tyr Leu Leu Gly Asn Ile Gly Ala Asn Gly Pro Lys
 180 185 190
- Leu Pro Thr Ala Ala Val Phe Asp Leu Gly Gly Gly Ser Thr Gln Ile 195 200 205
- Val Glu Glu Pro Thr Phe Pro Ile Asn Glu Lys Met Val Asp Gly Glu 210 215 220
- His Lys Phe Asp Leu Lys Phe Gly Asp Glu Asn Tyr Thr Leu Tyr Gln 225 230 235 240
- Phe Ser His Leu Gly Tyr Gly Leu Lys Glu Gly Arg Asn Lys Val Asn 245 250 255
- Ser Val Leu Val Glu Asn Ala Leu Lys Asp Lys Ile Leu Lys Gly Cys 260 265 270
- Asn Thr Lys Thr His Cys Leu Ser Ser Pro Cys Leu Pro Pro Lys Val 275 280 285
- Asn Ala Thr Asn Glu Lys Val Thr Leu Glu Ser Lys Glu Thr Tyr Thr 290 295 300
- Ile Asp Phe Ile Gly Pro Asp Glu Pro Ser Gly Ala Gln Cys Arg Phe 305 310 315 320
- Leu Thr Asp Glu Ile Leu Asn Lys Asp Ala Gln Cys Gln Ser Pro Pro 325 330 335
- Cys Ser Phe Asn Gly Val His Gln Pro Ser Leu Val Arg Thr Phe Lys 340 345 350
- Glu Ser Asn Asp Ile Tyr Ile Phe Ser Tyr Phe Tyr Asp Arg Thr Thr 355 360 365
- Arg Pro Leu Gly Met Pro Leu Ser Phe Thr Leu Asn Glu Leu Asn Asp 370 375 380
- Leu Ala Arg Ile Val Cys Lys Gly Glu Glu Thr Trp Asn Ser Val Phe 385 390, 395
- Ser Gly Ile Ala Gly Ser Leu Asp Glu Leu Glu Ser Asp Ser His Phe 405 410 415
- Cys Leu Asp Leu Ser Phe Gln Val Ser Leu Leu His Thr Gly Tyr Asp 420 425 430
- Ile Pro Leu Gln Arg Glu Leu Arg Thr Gly Lys Lys Ile Ala Asn Lys
 435 440 445

Glu Ile Gly Trp Cys Leu Gly Ala Ser Leu Pro Leu Leu Lys Ala Asp 450 455 460

Asn Trp Lys Cys Lys Ile Gln Ser Ala 465 470

<210> 13

<211> 153

<212> PRT

<213> Homo sapiens

<400> 13

Lys Tyr Gly Ile Val Leu Asp Ala Gly Ser Ser His Thr Ser Leu Tyr 1 5 10 15

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Gln Val Glu Glu Cys Arg Val Lys Gly Pro Gly Ile Ser Lys Phe Val

Gln Lys Val Asn Glu Ile Gly Ile Tyr Leu Thr Asp Cys Met Glu Arg 50 55 60

Ala Arg Glu Val Ile Pro Arg Ser Gln His Gln Glu Thr Pro Val Tyr
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Leu Gly Ala Thr Ala Gly Met Arg Leu Leu Arg Met Glu Ser Glu Glu 85 90 95

Leu Ala Asp Arg Val Leu Asp Val Val Glu Arg Ser Leu Ser Asn Tyr
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Pro Phe Asp Phe Gln Gly Ala Arg Ile Ile Thr Gly Gln Glu Gly 115 120 125

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Gln Leu Leu Glu Glu Cys Gln Val Lys Gly Pro Gly Ile Ser Lys Tyr 35 40 45 Ala Gln Lys Thr Asp Glu Ile Ala Ala Tyr Leu Ala Glu Cys Met Lys
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Met Ser Thr Glu Arg Ile Pro Ala Ser Lys Gln His Gln Thr Pro Val 65 70 75 80

Tyr Leu Gly Ala Thr Ala Gly Met Arg Leu Leu Arg Met Glu Ser Lys 85 90 95

Gln Ser Ala Asp Glu Val Leu Ala Ala Val Ser Arg Ser Leu Lys Ser 100 105 110

Tyr Pro Phe Asp Phe Gln Gly Ala Lys Ile Ile Thr Gly Gln Glu Glu 115 120 125

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Gln Glu Gln Ser Trp Leu Asn Phe Ile Ser 145

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Gln His Ser Ser Cys Asp Val Pro Gly Gly Gly Ile Ser Ser Tyr Ala 35 40 45

Asp Asn Pro Ser Gly Ala Ser Gln Ser Leu Val Gly Cys Leu Glu Gln
50 55 60

Ala Leu Gln Asp Val Pro Lys Glu Arg His Ala Gly Thr Pro Leu Tyr 65 70 75 80

Leu Gly Ala Thr Ala Gly Met Arg Leu Leu Asn Leu Thr Asn Pro Glu 85 90 95

Ala Ser Thr Ser Val Leu Met Ala Val Thr His Thr Leu Thr Gln Tyr
100 105 110

Pro Phe Asp Phe Arg Gly Ala Arg Ile Leu Ser Gly Gln Glu Glu Gly

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Ser Glu His Ser Met Cys Asp Val Glu Gly Pro Gly Ile Ser Ser Tyr 35 40 45

Ser Ser Lys Pro Pro Ala Ala Gly Lys Ser Leu Glu His Cys Leu Ser 50 55 60

Gln Ala Met Arg Asp Val Pro Lys Glu Lys His Ala Asp Thr Pro Leu 65 70 75 80

Tyr Leu Gly Ala Thr Ala Gly Met Arg Leu Leu Thr Ile Ala Asp Pro 85 90 95

Pro Ser Gln Thr Cys Leu Ser Ala Val Met Ala Thr Leu Lys Ser Tyr 100 105 110

Pro Phe Asp Phe Gly Gly Ala Lys Ile Leu Ser Gly Glu Glu Gly 115 120 125

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Leu Ser Ser Phe Gly Asp Lys Pro Glu Gln Val Val Glu Tyr Leu Thr
50 55 60

Pro Leu Leu Arg Phe Ala Glu Glu His Ile Pro Tyr Glu Gln Leu Gly 65 70 75 80

Glu Thr	Asp	Leu	Leu 85	Ile	Phe	Ala	Thr	Ala 90	Gly	Met	Arg	Leu	Leu 95	Pro	
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Ser Val	Thr 115	Ala	Leu	Arg	Val	Ser 120	Asp	Ser	Asn	Ile	Arg 125	Ile	Ile	Asp	
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